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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,083	01/15/2002	Yasunao Miura	111674	2919
25944 75	590 06/21/2006		EXAMINER	
OLIFF & BERRIDGE, PLC			HOFFMANN, JOHN M	
P.O. BOX 1992 ALEXANDRIA	-		ART UNIT PAPER NUMBER 1731	
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			DATE MAILED: 06/21/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	<u></u>			
Office Action Summan		10/045,083	MIURA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		John Hoffmann	1731				
Period f	The MAILING DATE of this communication or Reply	ntion appears on the cover sheet w	ith the correspondence address				
THE - External control	MAILING DATE OF THIS COMMUNICA ensions of time may be available under the provisions of 3 of SIX (6) MONTHS from the mailing date of this communi- period for reply specified above is less than thirty (30) do period for reply is specified above, the maximum statut- ure to reply within the set or extended period for reply will reply received by the Office later than three months after need patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a ication. lays, a reply within the statutory minimum of thi ory period will apply and will expire SIX (6) MO, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	cation.			
Status							
1) 又	Responsive to communication(s) filed	on 24 April 2006.					
3)	/ -						
.—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 2-5 and 16 is/are pending in the 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 2-5 and 16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from consideration.					
Applicat	ion Papers						
9)	The specification is objected to by the E	Examiner.					
) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to be	e correction is required if the drawing	g(s) is objected to. See 37 CFR 1.12	, ,			
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of the application from the International See the attached detailed Office action for the certification from the action for the attached detailed Office action for the action for the attached detailed Office action for the action for the action for the attached detailed Office action for the	cuments have been received. cuments have been received in A the priority documents have beer I Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage	;			
Attachmen							
2) 🔲 Notic 3) 🔯 Infori	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTo- er No(s)/Mail Date	-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 2-4 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andou 5952079 in view of Davidson 4776998, Chyung 4622057, Kramer 4569661, and Kitagawa 4439929, and optionally in view of Hallier 3731036 and Inukai 5189273.

See how the references were previously applied. Claim 4 has been amended to require that the tray is ceramic – and claim 16 is added and require the specific ceramic – cordierite.

As shown in Kramer at col. 1, lines 10-38, cordierite ceramic is a conventionally used tray material that exhibits satisfactory thermal shock resistence and chemical attack resistance. It is also noted that Andou's structure is cordierite (col. 6, line 25) - one would immediately understand that the tray would be in no danger of chemical attack – lest the honeycomb structure being made is also attacked. It would have been obvious to use a cordierite ceramic tray as the porous tray, because of the known thermal shock and chemical inertness afforded by it.

From MPEP 2144.07

Art Recognized Suitability for an Intended Purpose

The selection of a known material based on its suitability for its intended use supported a prima facie obviousness determination in Sinclair & Carroll Co. v. Interchemical Corp., 325 U.S. 327, 65 USPQ 297 (1945) (Claims to a printing ink comprising a solvent having the vapor pressure characteristics of butyl carbitol so that the ink would not dry at room temperature but would dry quickly upon heating were held invalid over a reference teaching a printing ink made with a different solvent that was nonvolatile at room temperature but highly volatile when heated in view of an article which taught the desired boiling point and vapor pressure characteristics of a solvent for printing inks and a catalog teaching the boiling point and vapor pressure characteristics of butyl carbitol. "Reading a list and selecting a known compound to meet known requirements is no more ingenious than selecting the last piece to put in the last opening in a jig-saw puzzle." 325 U.S. at 335, 65 USPQ at 301.).

See also In re Leshin, 227 F.2d 197, 125 USPQ 416 (CCPA 1960) (selection of a known plastic to make a container of a type made of plastics prior to the invention was held to be obvious); Ryco, Inc. v. Ag-Bag Corp., 857 F.2d 1418, 8 USPQ2d 1323 (Fed. Cir. 1988) (Claimed agricultural bagging machine, which differed from a prior art machine only in that the brake means were hydraulically operated rather than mechanically operated, was held to be obvious over the prior art machine in view of

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references which disclosed hydraulic brakes for performing the same function, albeit in a different environment.).

Furthermore, it is noted that Kitagawa is not needed as a reference: Andou teaches that cordierite can have a porosity of greater than 30% - thus Applicant's requirement of greater than 10% does not appear to be an unusual requirement.

From MPE 2144.05 [R-1] Obviousness of Ranges

See MPEP \S 2131.03 for case law pertaining to rejections based on the anticipation of ranges under 35 U.S.C. 102 and 35 U.S.C. 102/103.

I. OVERLAP OF RANGES

In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990) (The prior art taught carbon monoxide concentrations of "about 1-5%" while the claim was limited to "more than 5%." The court held that "about 1-5%" allowed for concentrations slightly above 5% thus the ranges overlapped.); In re Geisler, 116 F.3d 1465, 1469-71, 43 USPQ2d 1362, 1365-66 (Fed. Cir. 1997) (Claim reciting thickness of a protective layer as falling within a range of "50 to 100 Angstroms" considered prima facie obvious in view of prior art reference teaching that "for suitable protection, the thickness of the protective layer should be not less than about 10 nm (i.e., 100) Angstroms]." The court stated that "by stating that suitable protection is provided if the protective layer is about' 100 Angstroms thick, [the prior art reference] directly teaches the use of a thickness within [applicant's] claimed range."). Similarly, a prima facie case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties. Titanium Metals Corp. of America v. Banner, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985) (Court held as proper a rejection of a claim directed to an alloy of "having 0.8% nickel, 0.3% molybdenum, up to 0.1% iron, balance titanium" as obvious over a reference disclosing alloys of 0.75% nickel, 0.25% molybdenum, balance titanium and 0.94% nickel, 0.31% molybdenum, balance titanium.).

"[A] prior art reference that discloses a range encompassing a somewhat narrower claimed range is sufficient to establish a prima facie case of obviousness." In re Peterson, 315 F.3d 1325, 1330, 65 USPQ2d 1379, 1382-83 (Fed. Cir. 2003). However, if the reference's disclosed range is so broad as to encompass a very large number of possible distinct compositions, this might present a situation analogous to the obviousness of a species when the prior art broadly discloses a genus. Id. See also In re Baird, 16 F.3d 380, 29 USPQ2d 1550 (Fed. Cir. 1994); In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992); MPEP § 2144.08.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Andou 5952079 in view of Davidson 4776998, Chyung 4622057, Kramer 4569661, and Kitagawa 4439929 and optionally in view of Hallier 3731036 and Inukai 5189273 as applied to claim 4, and further in view of Mason 3187574 or Darringer 4315150.

Andou does not teach a temperature monitoring device. Darringer and Mason discloses advantages of the presently claimed thermometer. It would have been obvious to use a Darringer or Mason thermometer to control/optimize the drying process for the well known advantages of these non-contact thermometers.

Response to Arguments

Applicant's arguments filed 24 April 2006 have been considered but are moot in view of the new ground(s) of rejection.

The only argument that is still relevant appears to be that Kitagawa teaches using an metal tray. Whereas this is true, it is deemed the invention would still be obvious. The use of cordierite furnace furniture is well known – as is the concept of using porous trays in general and having cordierite as a porous material in specific.

One using cordierite trays would have been motivated to use a porous cordierite because 1) microscopic porosity of greater than 10% is a conventional state of cordierite (see Andou) and 2) macroscopic porosity greater than 10% is conventional to aid in drying.

Examiner also note the concept of placing just-baked bread (and other things) on a rack to cool and dry is conventionally.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Hoffmann whose telephone number is (571) 272 1191. The examiner can normally be reached on Monday through Friday, 7:00- 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jmh

John Hoffmann Primary Examiller Art Unit 1781